

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
16 October 2003 (16.10.2003)

PCT

(10) International Publication Number
WO 03/085113 A1

- (51) International Patent Classification⁷: C12N 15/54, C12Q 1/68, G01N 33/50 // C12N 9:10 (74) Agent: E. BLUM & CO.; Vorderberg 11, CH-8044 Zürich (CH).
- (21) International Application Number: PCT/IB03/01414 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 4 April 2003 (04.04.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: PCT/IB02/01258 9 April 2002 (09.04.2002) IB (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
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- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



WO 03/085113 A1

(54) Title: ENHANCER SEQUENCE OF THE 5-AMINOLEVULINIC ACID SYNTHASE GENE

(57) Abstract: Nucleic acid sequences mediating chemical compound induced 5-aminolevulinate synthase gene (ALAS1) expression are disclosed. Said sequences comprise at least a DR-4 binding site. Furthermore, in vitro methods for testing chemical compounds for modulation of heme and/or P 450 cytochromes synthesis are described.